



# EDGE EVO® Solo ESHR40 & ESHRP40 Hi-O Controller/Reader Single-Door Access Control System

**Features:**

- Embedded User Interface — no external software requirement
- Remotely managed using standard web browser.
- Interface to Hi-O door hardware and Hi-O compliant readers provides streamlined and smart installation.
- Web Browser Security — uses SSL 3.0 (Secure Socket Layer) and TLS 3.1 (Transport Layer Security) to establish a secure web browser connection.
- Network Configuration - Works within DHCP or Static IP networks for plug and play installation,
- Multi Language Support — Supports the following languages: English, French, German, Spanish (International), Russian, Portuguese (Brazilian), Italian, Chinese (Simplified), Japanese, Korean, Dutch and Turkish.
- All-in-One UI Page — “Door Dashboard” accesses door commands, status, alarms, and recent events from all screens.
- Back-up and restore of data from user PC.
- User upgradable firmware.
- Manages Card only, PIN only, Card and PIN transactions.
- Manages up to 1000 cardholders/credentials.
- Manages 8 schedules and 3 intervals each day
- View last 5000 events.
- Standardized report generation, including CSV export.
- First Person In (snow day) and PIN suppression schedules.
- Built-in 802.3af Power over Ethernet (PoE), with 8.4W available for readers, external field devices and locking hardware.
- Wet or dry door relays, including 12 or 24 VDC wet relay lock support.

## IP INTELLIGENCE AT THE DOOR WITH INTEGRATED MULTI-TECHNOLOGY READER FOR STAND-ALONE APPLICATIONS

- **Cost-Effective** - Uses Power over Ethernet (PoE) to power reader and door strike, eliminating the need for separate power supplies in many situations.
- **Remote Management** - Managed over the network through a standard web browser. No software installation necessary.
- **Integrated Reader** - The included reader/controller reads iCLASS® and HID Prox (ESHRP40) cards and opens the door; a secure side mounted door interface module places door contact in a secure area.
- **High Security** - Increased security with encrypted data exchange between controller and Hi-O devices, including readers, locks and request to exist devices.

HID Global's EDGE EVO® Solo ESHR40 and ESHRP40 Controller / Reader are cost-effective, stand-alone, single-door IP-enabled access control solutions that distribute intelligence right to the door. EDGE EVO Solo provides the ability to power all devices around a door using Power over Ethernet (PoE), significantly reducing total door installation costs by removing the need to install a separate power supply. It also utilizes less expensive CAT5 wiring compared to traditional structured cable.

Because the user interfaces to the controller utilizes a standard web browser, there is no need to install software on a PC. After the controller is plugged into the local area network (LAN), it obtains its IPv4 address using DHCP or Static addressing. The user simply types the IP address into the web browser, which initiates a secure connection with the stand-alone panel. The All-in-One Door Dashboard provides a simple user interface where the site administrator can add user information, modify access rights, pull history reports, monitor door activity

and provide general administration of the controller.

The easy-to-use user interface enables a number of simple access controller management features. The solution also enables electronic access control for sites with one or two doors and a card population of 10's or 100's of cards.

The integrated ESHRP40 controller/reader offers interoperability with iCLASS® credentials and existing 125 kHz HID Prox credentials. The controller/reader is mounted indoors on a US single-gang or EU/APAC 60mm round electrical box next to the door. The controller/reader connects to Hi-O enabled devices, including Hi-O iCLASS readers, locks and push buttons, using a four-wire bus. All intelligent Hi-O compliant devices communicate bi-directionally, providing supervision and up-to-date system status information. Devices are installed in an easy-to-use plug-and-play mode, then locked down and encrypted as a last step in commissioning the door.

**Mounting Options:**

Controller/Reader is indoor rated only. Mount indoors on:

- US Single-gang style electrical box.
- EU/APAC 60mm round style electrical box.

**Supported Hi-O Devices:**

- Lock (can provide power over 4-wire CANbus).
- Request-to-Exit switch.
- Door operator.

**Access control readers:**

- Includes integrated iCLASS (ESHR40) or multiCLASS (ESHRP40) Reader.
- Add up to 1 additional Hi-O iCLASS reader for in/out reading.

**Easily interfaced:**

- RJ-45 connector for Ethernet TCP/IP (10/100 Mbps).
- Quick-disconnect screw terminal connectors.
- Software updates easily provided through browser interface.
- Easily upgrades to a hosted software solution through the network interface.


**SPECIFICATIONS**

<b>Model (and Part #)</b>	ESHR40 (83120CKH000)	ESHRP40 (83125CKH000)
<b>Mounting Holes</b>	US Single-gang and EU / APAC 60mm	
<b>Dimensions</b>	3.3" W x 4.8" H x 1.2" D (83.9 mm x 122.2 mm x 30.5 mm)	
<b>Weight</b>	6.3oz (180g)	
<b>Housing Material</b>	UL94 polycarbonate	
<b>Audio / Visual Indicators</b>	Two LEDs on RJ-45 port for network; beeper and reader LED for boot and tamper	
<b>Operating Temperature</b>	32° to 122° F (0° to 50° C)	
<b>Operating Humidity</b>	5% to 95% relative, non-condensing	
<b>Communication Ports</b>	Ethernet (10/100), Hi-O CANbus, Wiegand or Clock-and-Data	
<b>13.56 MHz Card Compatibility</b>	13.56 MHz iCLASS HID Application, ISO14443A CSN, ISO14443B CSN	
<b>125 kHz Card Compatibility</b>	N/A	HID Prox, Indala, AWID, EM4102
<b>Certifications</b>	UL294 (US) Listed Component, CSA 205 (Canada), FCC Class B (US), CE: EN 300 330, EN 301 489-3, EN 50130-4 (EU), C-Tick: AS/NZS 4268 (Australia, New Zealand), IC: ICES-003 Class B (Canada), CE (EU), SRRC (China), KCC (Korea), NCC (Taiwan), iDA Singapore, RoHS	
<b>Warranty</b>	Warrantied against defects in materials and workmanship for 18 months (See complete warranty policy for details).	
<b>Input Power</b>		
<b>DC Input (MAX) @ PoE</b>	14.4W (300mA @ 48VDC)	
<b>DC Input (MAX) @ AUX +12VDC</b>	18W (1500mA @ 12VDC)	
<b>DC Input (MAX) @ AUX +24VDC</b>	36W (1500mA @ 24VDC)	
<b>Output Power (MAX) for total system and individual field devices</b>		
<b>DC Input @ PoE</b>	8.4W (350mA @ 24VDC)	
<b>DC Input @ AUX +12VDC</b>	13.5W (1125mA @ 12VDC)	
<b>DC Input @ AUX +24VDC</b>	27W (1125mA @ 24VDC)	
<b>Hi-O CANbus Output Voltage, DC Input = PoE</b>	24VDC	
<b>Hi-O CANbus Output Voltage, DC Input = AUX</b>	AUX +VDC	
<b>Hi-O Device Compatibility</b>		
<b>Reader and Module</b>	Hi-O iCLASS R40 EDGE EVO EVM Voltage Module**	Standard multiCLASS RP40 EDGE EVO EWM-M Wiegand Module

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